

AMENDMENTS TO THE CLAIMS:

The claims as currently presented and under consideration, are presented below for the Examiner's convenience and to comply with 37 CFR §1.121:

1. (Currently Amended) A method of increasing the secretion of a heterologous protein in a eukaryotic cell comprising inducing an elevated unfolded protein response (UPR) by increasing the presence of a UPR-modulating protein ~~wherein the UPR-modulating protein isolated from a yeast or a filamentous fungi~~ a yeast or filamentous fungi derived UPR-modulating protein, wherein said UPR-modulating protein comprises a DNA binding domain that has at least 70% similarity to a DNA binding domain set forth in Figure 10, and further wherein the induction of the elevated UPR results in the increased secretion of the heterologous protein relative to the parental cell.
2. (Original) The method of Claim 1 wherein inducing is by increasing the presence of HAC1 protein in said cell.
3. (Original) The method of Claim 2 wherein said HAC1 protein is constitutively produced.
4. (Original) The method of Claim 2 wherein said increase of HAC1 protein is by a UPR inducing form of a HAC1 recombinant nucleic acid.
5. (Original) The method of Claim 2 wherein said HAC1 protein is encoded by a nucleic acid isolated from a cell selected from the group consisting of *Aspergillus*, *Trichoderma*, *Saccharomyces*, *Schizosaccharomyces*, *Kluyveromyces*, *Pichia*, *Hansenula*, *Fusarium*, *Neurospora*, and *Penicillium*.
6. (Original) The method of Claim 2 wherein said HAC1 protein is encoded by a nucleic acid isolated from yeast.
7. (Original) The method of Claim 6 wherein said yeast is *Saccharomyces cerevisiae*.
8. (Original) The method of Claim 2 wherein said HAC1 protein is encoded by a nucleic acid isolated from filamentous fungi.

9. (Original) The method of Claim 8 wherein said fungi is from *Trichoderma*.
10. (Original) The method of Claim 8 wherein said fungi is *Trichoderma reesei*.
11. (Original) The method of Claim 8 wherein said fungi is from *Aspergillus*.
12. (Original) The method of Claim 8 wherein said fungi is *Aspergillus nidulans*.
13. (Original) The method of Claim 8 wherein said fungi is *Aspergillus niger*.
- 14- 25. Withdrawn
26. (Original) The method of Claim 1 wherein said cell is selected from the group consisting of *Aspergillus*, *Trichoderma*, *Saccharomyces*, *Schizosaccharomyces*, *Kluyveromyces*, *Pichia*, *Hansenula*, *Fusarium*, *Neurospora*, and *Penicillium*.
27. (Original) The method of Claim 1 wherein said cell is a yeast cell.
28. (Original) The method of Claim 27 wherein said yeast is *Saccharomyces cerevisiae*.
29. (Original) The method of Claim 1 wherein said cell is from filamentous fungi.
30. (Original) The method of Claim 29 wherein said fungi is from *Trichoderma*.
31. (Original) The method of Claim 29 wherein said fungi is *Trichoderma reesei*.
32. (Original) The method of Claim 29 wherein said fungi is from *Aspergillus*.
33. (Original) The method of Claim 29 wherein said fungi is *Aspergillus nidulans*.
34. (Original) The method of Claim 29 wherein said fungi is *Aspergillus niger*.
35. (Cancelled)
36. (Original) The method of Claim 1 wherein said cell is a mammalian cell.
- 37-82. Withdrawn
83. (Previously Amended) A cell containing a heterologous nucleic acid encoding a yeast or filamentous fungi protein having unfolded protein response modulating activity and a heterologous nucleic acid encoding a protein of interest to be secreted.

84. (Previously Amended) The cell of Claim 83 wherein said protein having unfolded protein response modulating activity is a fungal HAC1.

85. (Original) The cell of Claim 83 wherein said protein of interest is selected from the group consisting of lipase, cellulase, endo-glucosidase H, protease, carbohydrase, reductase, oxidase, isomerase, transferase, kinase, phosphatase, alpha-amylase, glucoamylase, lignocellulose hemicellulase, pectinase and ligninase.

86. Withdrawn

87. (New) The cell of Claim 83 wherein said protein having unfolded protein response modulating activity is a yeast HAC1.